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**From:** EPAResearchCompass [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=C1E8F11508674C3C954553A1129D33E5-EPARESEARCH]  
**Sent:** 3/20/2018 6:07:07 PM  
**To:** ORD-ALL Feds and NonFeds and RSLs [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=2c735272eef941588aefd9a05ed28823-ORD-ALL Feds and NonFeds and RSLs]  
**CC:** Lincoln, Larry [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=8248d03a1441414db7754db201ebec45-Lincoln, Larry]; Barnett, Felicia [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=5773b45cae5142fe950861dd6146f1e9-Barnett, Felicia]; Carter, Bobbi [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=f16dcafe85fc418ebd1651be2e8ab82d-Carter, Bobbi]; Gettle, Jeaneanne [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=d8e72aa7e1894faea44006fd9f22b637-Gettle, Jeaneanne]; Taylor, Dawn [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=b984d00ec06544e498ee5d986f97047c-Taylor, Dawn]; Klinger, Adam [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=346d5466632f4967adc7169c8d2ce4fd-Klinger, Adam]; Widener, Charles (Chuck) [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=db4c02702e5a4d25aabff1cf8bfa3e36-Widener, Ch]; Liljegren, Jennifer [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=c7098a838cd34f75b8878571fe95d939-JLiljegr]; Pollard, Solomon [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=16cdf700f8024145847a2770b84abae3-Pollard, Solomon]; Clarage, Meredith [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=ee9504437be545489f518710a5e80e68-Clarage, Meredith]; Fan, Shirley [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=cdeba1df9599435cb7401d0a65be7cda-Sfan02]  
**Subject:** Weekly Compass: March 20, 2018



Weekly Update: 3/20/2018

Welcome to the Weekly Compass, your gateway to information about recent and upcoming ORD activities. If you have ideas for the Weekly Compass, please send them to the editors. To see past issues, visit the Weekly Compass archive on ORD@work.

### **Weekly Note from Jennifer**

ORDers- Yesterday, I participated in the Johns Hopkins' symposium, *Transforming Environmental Health: A Symposium of the Bloomberg American Health Initiative*, along with a number of other ORD colleagues. I gave a panel discussion presentation on *Data at the Intersection of Environment & Health*.

Richard Yamada, Chris Robbins, and others from ORD are attending the Environmental Council of the States Spring Meeting in Minnesota. Chris and Lisa Matthews will discuss ORD-state partnership efforts at the Environmental Research Institute of the States (ERIS) Board Meeting on March 21. They will discuss our state engagement work plan, upcoming state engagement activities for ORD's Strategic Research Action Plans, and plans for ERIS Board-ORD summer face-to-face meeting. Also on March 21, the ERIS Research Expo will be held during two networking breaks to share more about ORD research and the Interstate Technology and Regulatory Council efforts with the states.

As you know, the current Continuing Resolution for FY18 is set to expire on March 23. Please stay tuned for more information on how that may affect operations.

As always, thanks for your commitment to safeguarding the environment and public health. -  
*Jennifer*



*Jennifer at yesterday's symposium at Johns Hopkins*

### **Quick Updates**

- No Fear Act Training is now available, training must be done by September 30
- Don't forget to check out the open opportunities on Talent Hub!
- You can read the This Week @ EPA newsletter [here](#).
- Upcoming webinars:

- ACE Connections Call: Wednesday, March 21, 11:30-12:30 pm ET
- IRIS Public Science Webinar: Thursday, March 22, 1:30- 3:30 pm ET
- CSS Science Webinar Series: HIGH-THROUGHPUT TRANSCRIPTOMICS (HTTr): Tuesday, March 27, 1-2 pm ET
- Small Water Systems Research Webinar: Water Security and Resiliency: Tuesday, March 27, 2-3 pm ET
- Air and Energy StRAP Refresh informational webinar: Wednesday, March 28, 1-2:30 pm ET
- EPA Tools and Resources Webinar: Cost-Effective Treatment Technologies for Small Drinking Water Systems: Wednesday, March 28, 3-4 pm ET
- CompTox Communities of Practice: The CompTox Chemistry Dashboard v2.6 – Delivering Improved Access to Data and Real Time Predictions: Thursday, March 29, 11-12pm ET
- ACE Centers' webinar: Yale/JHU SEARCH Center: Thursday, March 29, 1-2 pm ET

## Photos of the Week: Texas

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### In the Lab:

#### Enter Your FY18 Second Quarter Data into TechTracker by March 31

The second quarter for Fiscal Year 2018 (FY18) is coming to an end, so it will soon be time to develop the second quarterly report of TechTracker data. To ensure that all FY18 second quarter data is in the system prior to developing the report, we are asking that everyone create any remaining entries for technical support performed during the second quarter (January 1 through March 31, 2018) or add hours to existing entries as necessary for additional time spent on those tasks in that timeframe. Please have all applicable technical support hours for second quarter work entered into TechTracker by March 31.

#### Federal Lead Strategy Meeting

Today and tomorrow, NERL's Valerie Zartarian will meet with EPA Program Office partners and others in ORD to discuss Federal Lead Strategy Research Goal 5. Valerie Zartarian is the EPA co-chair for Research Goal 5.

#### IARC Working Group

This week, NERL's Rogelio Tornero-Velez and NCEA's Jason Fritz will be in Lyon, France to serve on a Working Group of the International Agency for Research on Cancer (IARC). The working group will be developing a monograph to assess the carcinogenicity of Styrene; Styrene-7,8-oxide; and Quinoline.

#### Workshop on Building a Bioassessment Toolbox for States

This week, NCEA's Britta Bierwagen and David Gibbs (ORISE Fellow) will attend a workshop on the biological condition gradient in Olympia, WA. They will lead discussions on long-term monitoring and strategies for selecting streams for restoration and protection. The workshop is co-hosted by OW and will be attended by state and county scientists from Oregon and Washington.

## **National Ambient Air Quality Standard (NAAQS) Support**

Last week, NCEA's Jen Nichols and Tim Benner of OSP participated in the Final Agency Review meeting for the Primary NO<sub>2</sub> NAAQS Review, which is now in the Final Agency Review period. A court-ordered schedule requires signature of the final rule by April 6<sup>th</sup>.

## **Superfund Health Risk Technical Support Center Supporting Region 2**

The STSC received a request from Region 2 for information related to the toxicity of 2-aminopyridine for use in developing a soil cleanup goal for the Nepera Chemical Company Superfund site in Hamptonburgh, NY. As there are no available toxicity values for 2-aminopyridine, the STSC is currently evaluating options for the identification of suitable surrogate chemicals.

## **NoroCORE Meeting**

This week, NERL's Shay Fout will attend the final Norovirus Collaborative for Outreach, Research, and Education (NoroCORE) meeting. NoroCORE is a group of university, industry, and government scientists who have been studying ways to prevent foodborne outbreaks caused by noroviruses. Fout will participate in debates as an expert in the environmental and drinking water field and will receive updates on the latest methods developments and industry perspectives.

## **Michigan Beach Data Meeting**

Tomorrow, NERL's Rich Haugland and Kevin Oshima will attend a meeting with Michigan Department of Environmental Quality and Michigan State University researchers. They will discuss future plans regarding collaborative efforts to analyze 2016-2017 Michigan beach data for the purpose of either implementing EPA Method 1609.1 for the detection of enterococci bacteria in water or establishing water quality criteria for EPA Draft Method C for *E. coli* in the State of Michigan.

## **Pipeline H2O Visiting EPA-Cincinnati**

Pipeline H2O is a greater Cincinnati area-based water-tech accelerator that assists in the commercialization of innovative water-based startup technologies. Seven startup businesses are participating in Pipeline's 2018 session, over 15-weeks the commercialization program brings together renowned organizations in the water tech industry and provides startups with mentors and support to bring technologies into the marketplace. Representatives from Pipeline and the 2018 session's startup companies will visit EPA-Cincinnati on Thursday to meet with NRMRL researchers and tour the facility.

## **New Studies of Traffic-related Health Impacts Funded**

The Health Effects Institute (HEI) is a unique public-private partnership that is funded partially by EPA (jointly by ORD and OAR). HEI recently announced three projects that it has funded to assess potential health effects of traffic-related pollutants and disentangle them from confounding or modifying factors — most notably, traffic noise, socioeconomic status, and the built environment, including green space. Learn more about these new studies [here](#).

## **Developing Post-terrorism Remediation Capabilities**

NHSRC and OLEM are meeting with the Department of Homeland Security (Science Directorate and US Coast Guard) and DoD's Defense Threat Reduction Agency to design an interagency effort to build our Nation's post-terrorism, remediation capabilities through collaborative science. The effort will culminate in a field demonstration focused on sampling, decontamination, fate and transport, and waste management to support rapid and efficient decision making following a

large-scale, outdoor biological contamination incident. EPA and the US Coast Guard hold synergistic responsibilities for bioterror remediation under the Emergency Support Function #10, oil and hazardous materials response annex. Pre-incident collaboration between the two Agencies will increase the likelihood of a well-coordinated response in coastal areas.

### **Field Study of Outdoor Fate and Transport of Biological Agents**

NHSRC, in collaboration with NRMRL and OLEM, are performing a field test at EPA's Edison, NJ Urban Watershed Research Facility to investigate the fate and transport of biological-agent spores in an outdoor setting. These tests, which will be conducted this week, will be the first field-scale tests to illustrate some of the challenges EPA responders will face when dealing with in a wide-area anthrax contamination incident. The field study will investigate spore transport due to precipitation events, such as rain, and will assess the effectiveness of wash-down, gross decontamination methods and outdoor sampling methods. Surrogate spores of soil bacteria (e.g. *Bacillus atrophaeus*) will be used as a simulant for *Bacillus anthracis* (anthrax) spores. During the tests, workers will be outfitted with personal monitors to assess methods to evaluate worker safety during wide-area biological incidents. RTP and Cincinnati Safety, Health, and Environmental Management offices assisted in documenting a National Environmental Policy Act categorical exemption to allow the tests to proceed.

### **Advising North Carolina on Recommended Health Goal for GenX in Water**

NCEA's John Vandenberg and NHEERL's Elaina M. Kenyon are members of the North Carolina Secretaries' Science Advisory Board (SAB), which provides advice to the NC Departments of Health and Human Services (DHHS), and Environmental Quality. The SAB is providing technical support to DHHS in reviewing the health goal calculation for GenX in water, and will meet in Raleigh on March 19 to make recommendations to enable NC to finalize its health goal, or limit.

### **Assisting States and Territories to Address Cyanotoxins and Cyanobacteria**

Last week, NHEERL's Elizabeth Hilborn joined presenters from the Centers for Disease Control and Prevention (CDC), the Florida Department of Health, and OW to share information about harmful algal blooms at the Poison Center and Public Health Collaboration Community of Practice (COP). This COP is a joint effort of the Council of State and Territorial Epidemiologists, the American Association of Poison Control Centers, and the CDC Health Studies Branch. Dr. Hilborn delivered the presentation: "Human health effects associated with exposure to cyanobacteria and cyanotoxins; What do we know?"

### **Updating FBI and Medical Researchers about Changes to Regulations**

Last week, NHEERL's Dan Nelson discussed recent updates to the 'Common Rule,' which governs human subjects research, at an annual conference jointly sponsored by the Massachusetts Society for Medical Research, the FBI Weapons of Mass Destruction Directorate, and the North Carolina Association for Biomedical Research. The annual conference addresses oversight functions involved in research, including Institutional Review Boards, Institutional Animal Care and Use Committees, and Institutional Biosafety Committees. The Common Rule regulations, govern human subjects research and were revised in 2017 after a 6-year rulemaking process. Changes were made in many areas, including informed consent, continuing review, exemptions and multi-site research, with an effective date of January 2018 (currently delayed).

### **Cookstoves Workshop at National University of Mexico (UNAM)**

NRMRL's Jim Jetter has been invited by UNAM to conduct a week-long capacity building workshop on cookstove research and testing at the UNAM Morelia Campus in Michoacan, Mexico this week. This workshop will build capacity for testing stoves to reduce household air pollution and promote cleaner cookstove technology. Attendees will include academia, global partners, and industry representatives. Jim's visit will also help further develop a global network of Regional Cookstoves Testing and Knowledge Centers (RTKCs) capable of scientifically evaluating and certifying cookstoves to international standards for air pollutant emissions and fuel efficiency.

### **Flood Risk Article Published**

NCEA's Phil Morefield coauthored a study that applies a new method for estimating current and future flood risk for the entire conterminous United States, titled "*Estimating current and future flood risk in the conterminous U.S.*" The article was published in the journal *Environmental Research Letters*.

### **Rehabilitation of Drinking Water Treatment and Monitoring Systems in PR**

Last week, NRMRL's Dan Williams and Craig Patterson assisted Region 2 and small communities near Patillas, Puerto Rico that have been part of an EPA RARE project on rehabilitation of water systems. In addition to working on the treatment and monitoring systems, EPA will be helping community volunteers with sample collection and analysis to document turbidity and pathogen and disinfectant residual concentrations in source and treated water. On September 20, Hurricane Maria produced 110 mph winds and 35 inches of rain, causing large trees to fall on power lines and overflowing water treatment systems in Puerto Rico's tropical rainforests.

### **Technical assistance to Region 4, Paducah, KY**

At the request of Region 4, NRMRL's Eva Davis attended meetings to provide technical assistance on the upcoming remedial investigation at the Paducah Gaseous Diffusion Plant Superfund Site. The meetings will include the Department of Energy (DOE), Region 4, and Kentucky Department for Environmental Protection. These are the first of several planned meetings to determine the scope of the remedial investigation to determine the extent of contamination and remedial approach to treat the area. The Paducah Superfund site is the location of a former DOE uranium enrichment plant with hazardous and radioactive wastes.

### **Healthy Homes Collaborative Meeting, Cincinnati, OH**

Last week, NRMRL's Mike Schock attended a regular meeting of the Hamilton County Lead and Healthy Homes Collaborative. Mike led a workshop on understanding labeling of home-use water filters, including both at-the-faucet and pitcher types. The collaborative brings together public health experts in the Cincinnati area, including representatives from government and community agencies, to share knowledge about minimizing the risks of lead exposure.

### **Grantee Publication on Using Remote Sensing Information**

Published in *PLOS One*, Extreme Event grantee Jiyoung Lee, C. K. Shum, and Song Liang and colleagues investigated spatiotemporal heterogeneities of Chlorophyll-a in western Lake Erie using remote sensing derived information. They also explored the relative importance of the environmental factors in correlating with the distribution of Chlorophyll-a based on the remote sensing information. Based on this information, high concentrations of Chlorophyll-a were observed in the south near shore area in spring and fall and in the west corner area of western Lake Erie in all three seasons except winter. They also explored factors associated with the dynamics of Chlorophyll-a. The results suggested that overall both phenological (e.g. wind) and ecological (e.g. nutrient levels) factors exhibited significant correlations with the remotely-sensed imagery based observations of Chl-a despite spatial and temporal variations. The

important phenological and ecological factors include solar radiation and wind speed in spring, water temperature, solar radiation, and total Kjeldahl nitrogen concentration in summer, wind speed in fall, and water temperature and streamflow in winter. Both consistency and differences of findings of the study with others in the region may suggest strengths and limitations of the remotely sensed imagery-based analysis, offering valuable information for future work.

## **Grantee Publication on Use of High Resolution MS for Biological Samples**

The use of high-resolution mass spectrometry (MS) has been employed for environmental samples but not previously for biological samples. Scientists at UC San Francisco, funded in part by STAR program, developed a method using liquid chromatography–quadrupole time-of-flight MS for discovery of previously unmeasured environmental chemicals in human serum. Using non-targeted data acquisition, they screened for environmental organic acids (EOAs) including phenols, phthalate metabolites, perfluorinated compounds, phenolic metabolites of polybrominated diphenyl ethers and polychlorinated biphenyls, and acidic pesticides and/or predicted acidic pesticide metabolites in 20 serum samples from second trimester pregnant women. Matching chemical formulas from the sample runs with molecular formulas from a database of 693 EOAs, they found potential matches for 282 of them. Sixty-five of the EOAs were detected in 75% or more of the samples, though only 19 are currently monitored by the National Health and Nutrition Examination Survey. The study provides the first confirmed detections of benzophenone-1 and bisphenol S in the serum of pregnant women.

## **Novel Smog Simulation Studies Published**

Six articles published in *Environmental Science & Technology* describe the generation of multipollutant, simulated atmospheres (SAs) in a state-of-the art photochemical reaction chamber in EPA labs in NC. The work provides insights into the chemistry of atmospheric transformation products and their toxicity in cell and animal model studies. The researchers generated and characterized two stable smog atmospheres with the same integrated air quality health index. One atmosphere had high PM and lower oxidant gases (SA-PM), and the other had high oxidant gases and low PM (SA-O3). The results indicated that SA-O3 was more mutagenic than SA-PM and caused a greater number of cardiac arrhythmias and lung function changes in rodents. Also, milder cardiac dysfunction from SA-PM was enhanced in mice with vitamin D-deficiency. A major caveat of these studies is that the PM<sub>2.5</sub> was wholly formed as secondary organic aerosols (SOA) and did not comprise other common constituents such as metals and elemental carbon. Overall, the research demonstrates a useful approach to compare the relative potency of complex air pollution atmospheres and identifies sensitive (and insensitive) biomarkers of effect.

## **Superfund & Technical Support to States and Regions**

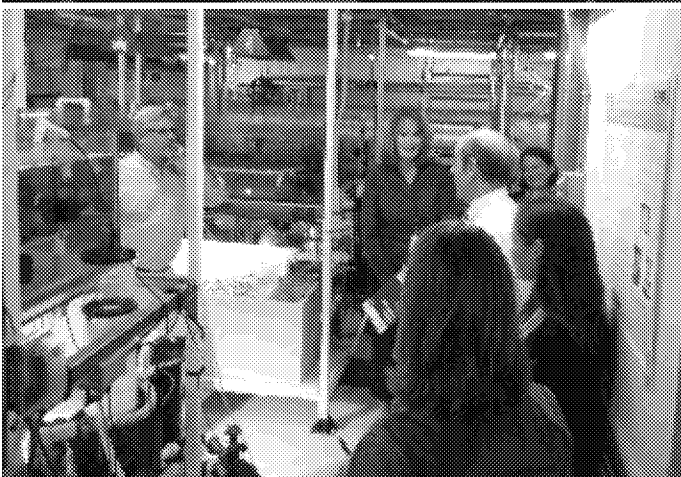
Last week, Kira Lynch and Felicia Barnett (OSP) met with Region 10 staff to discuss multiple issues. Kira discussed final comments with regional Superfund staff on the performance work statement for a planned remedial action for the Hamilton Road Impacted Area (HRIA). The HRIA is an operable unit of the Hamilton/Labree Roads Groundwater Contamination Superfund Site in Chehalis, WA, where trichloroethylene (TCE) contamination has impacted the site's groundwater. Kira briefed Region 10 Superfund management on possible remediation and characterization actions that may be required for the Eastern Michaud Flats Superfund Site, a former phosphorus ore-processing facility in Pocatello, ID. Kira also met with staff to discuss the remedial investigation data gaps analysis report for the Northwest Pipe & Casing Superfund Site, a former coated pipe manufacturing facility in Clackamas, OR, where improper waste disposal has led to TCE-contaminated groundwater. Felicia and Kira met with staff to discuss background contaminant data derived by the potentially responsible party for the Makah Reservation Warmhouse Beach Dump Site in Neah Bay, WA. ORD's Site Characterization and Monitoring

Technical Support Center has been providing statistical evaluation support for the site team. Kira also met with regional Superfund staff and representatives of the potentially responsible party to discuss possible VOC contamination in the groundwater at the Palermo Wellfield Superfund Site in Tumwater, WA. They discussed the updated conceptual site model and the plan for finalizing the site remedial investigation.

Last week, Anna-Marie Cook (OSP) met with staff from the U.S. Navy to discuss plans for a summer sampling trip to Tern Island, HI, where erosion from recent storms has exposed large areas of PCB-, metals- and pesticide-contaminated debris from prior military activities. Anna-Marie is working with Rob Burgess (NHEERL) and the U.S. Navy to develop a sampling plan for evaluating PCB and metals contamination on the island. This effort will help Region 9, the U.S. Fish & Wildlife Service and the State of Hawaii to better mitigate and remove remaining contaminants to protect this wildlife refuge.

## Visit to Gulf Breeze

Earlier this month, IOAA's Bruce Rodan and Megan Fleming visited NHEERL's Gulf Ecology Division (GED). Highlights of the visit included a lab tour of GED's marine ecology and ecotoxicology research including corals, as well as learning about GED's work to support the regions and states on nutrient pollution. Discussion included advancing GED research in the context of program and regional priorities (e.g., the National Aquatic Resource Surveys, and the National Coastal Condition Assessment) to facilitate inclusion in updates to ORD's Strategic Research Action Plans. Bruce and Megan very much enjoyed meeting GED staff, and appreciated the warm welcome and quality presentations, as well as the extra day in sunny Florida due to the D.C. windstorm and flight cancellations.



*L to R: Beth George, Megan Fleming, Kimberly Nelson, Candice Lavelle, and Bruce Rodan  
Beth, Cheryl Hankins, Bruce, Megan, and Laura Enzor*

*L to R: Bill Fisher,*



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## **In the Office:**

### **EPA's 2018 Women's History Month Event**

"Honoring Women Who Paved the Way" on Wednesday, March 28, 10-11 a.m. ET. In person: WJC-East Room 1153. The event will be broadcast live. Please remember that EPAtv is available using only Internet Explorer while on the EPA network and cannot be accessed remotely. Phone lines are not available for this event, but the video recording is expected to be available on EPAtv On-Demand on the morning of Thursday, March 29. For additional information on this event, please contact Jannette Stewart at 202-564-0405 or [stewart.jannette@epa.gov](mailto:stewart.jannette@epa.gov). People needing reasonable accommodations should contact Kristin P. Tropp at 202-559-0006 or [tropp.kristin@epa.gov](mailto:tropp.kristin@epa.gov).

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## **Accolades:**

### **Retired ORD National Program Director Receives NC Airkeeper Award**

Clean Air Carolina (CAC) annually recognizes individuals and organizations working to improve air quality in North Carolina. This year's recipients included Dan Costa (retired ACE NPD) who was recognized for his leadership to "promote advances in the underlying science for the cardiopulmonary health impacts of air pollution." In addition, CAC noted that Dan "has continued to lead research that more directly supports stakeholders and as a result, the research and programs under his leadership have helped inform more science-based approaches to air quality management that protect public health in North Carolina and beyond."

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## **In the News:**

### **Magazine Article Identifying Lead Plumbing Sources**

NRMRL's Darren Lytle, Simoni Triantafyllidou, and Mike Schock are authors on an article published in the March 2018 edition of American Waterworks Association's (AWWA) *OpFlow*. The title of the article is "Identify Lead Plumbing Sources to Protect Public Health," and discusses the approaches that can be taken to assess the presence of lead in drinking water and how water utilities should consider using diagnostic sampling to help identify lead sources. *Opflow* is a monthly magazine focused on operations issues, including new and established technologies and ideas that readers can apply to water treatment and distribution, as well as wastewater operations.

### **EM Magazine Article Highlights Flint Hill Study**

An article on the Flint Hills study in Kansas has been published in the March issue of *EM* magazine, a publication for members of the Air & Waste Management Association.

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## In the Community:

### Career Information Session for University of Chicago

Last week, NCEA hosted a group of students from the University of Chicago's myCHOICE program. The goal of the session was to present career options and experiences that may leverage their strong biomedical training with careers in government and policy.

### EPA-RTP STEM Outreach Program

- Yesterday, the Program presented activities about bioaccumulation at Efland Cheeks Elementary School in Efland, and hosted middle school girls and their mentors through the Women and Math Mentoring Program as they tour the RTP campus, participate in speed mentoring, and learn about air quality.
- Today, the Program will host visitors from the Cary Newcomers Club for a morning of tours to learn about the work we do.
- Tomorrow, the Program will lead a hands-on activity to teach students about wind as a form of renewable energy during the fourth session for the spring apprenticeship for Citizens Schools at Lowes Grove Middle School in Durham.
- On Thursday, the Program will lead a hands-on activity at W.G. Pearson Elementary School in Durham, and lead K-5 students at Easley Elementary School in a hands-on activity about animals and the environment as part of their spring intersession program.
- On Friday, the Program will present a hands-on activity about electricity use as part of Career Day at Sanford Creek Elementary School in Rolesville.
- On Saturday, representatives from the Program will serve on a panel about careers outside of academia at the North Carolina Academy of Sciences Meeting at Wake Technical Community College in Raleigh.

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## Photos of the Week: Texas

Last week, many ORDers attended the SOT 57<sup>th</sup> Annual Meeting and ToxExpo in San Antonio, Texas. ORD staff provided presentations, participated on discussion panels, shared research in poster sessions, demonstrated tools, and some folks even won awards. On Wednesday, Jennifer and Richard travelled to Dallas to visit the Region 6 office. While there, they met with RA Anne Idsal and DRA David Gray, gave an ORD 101 presentation, had a great conversation about regional science needs with senior staff, and heard updates on a few of our RARE and RESES projects within the Region.



*Jennifer talking with CSS staff Lauren Gessner and Ashley Miller-Dykeman at a Meet the Director session at SOT in San Antonio, TX last Monday.*



*Maureen Gwinn pictured with Ron Hines and her Public Communications Award that she received at SOT. Congrats to Maureen and all the other recipients from this year's meeting.*



*Jennifer & Richard viewed presentations on Region 6 RARE and RESES projects from Mike Miller, Jatin Mistry, and Kenneth McPherson (not pictured) in Dallas, TX. L to R: Mike Miller, Jatin Mistry, Richard, Jennifer, and Michael Morton (R6 RSL).*